REMOTE MGMT LOOP BACK

High Speed Serial: V.35/X.21/RS449/RS530/RS232 with Remote In-Band Management

see also: Point System™ Slide-In-Module NID [pg 58]

SPSVT26xx-10x

Remotely Managed High Speed Serial NID (Network Interface Device)

Features

- Connect High Speed Serial signals on copper to fiber
- Supports multiple protocols through the use of a universal 26-pin serial interface connector
- Extend the point of presence of a copper V.35/X.21/RS449/RS530/RS232 connection at data rates up to 10 Mbps.
- In-band Remote Management when used in conjunction with Point System™ card [pg 17]
- Operational speeds up to 10 Mbps
- Copper & Fiber Loopback [pg 18]
- Synchronous or asynchronous capability
- Selectable DCE speeds
- LED indications for Lock, Loopback & Data [pg 18]
- Use a combination of any copper interface: (RS449 to V.35, RS530 to X.21, DTE-DTE, DTE-DCE, DCE-DCE, etc.) All interfaces converted at the physical level.

Copper Distances

Standard	Range*
RS232/V.24	15 m
RS449/V.36	1.2 km
V.35	600 m
X.21	1.2 km
RS530	1.2 km

*For reference only. Contact Transition Networks for detailed range information.

Ordering Information

Complete list of fiber optic connector specifications [pg 212-224]

Standards	ITU-T; ISO-2593
Data Rate	1.2 Kbps to 10 Mbps
Switches	• 0 – TT = Receive CLK • 1 – 56 Kbps • 2 – 64 Kbps • 3 – 112 Kbps • 4 – 128 Kbps • 5 – 256 Kbps • 6 – 384 Kbps • 7 – 512 Kbps • 8 – 768 Kbps • 9 – 1.024 Mbps • A – 1.544 Mbps • B – 2.048 Mbps • C – 3.072 Mbps • D – 4.096 Mbps • E – 6.144 Mbps • F – Asynchronous Mode **Side panel**, external DCE speed switch, sixteen position: Speeds can also be set on DCE devices locally or remotely via software **Front Panel**, Loop-back Selector Switch: Right Position: Loop Fiber Back & Loop Copper Back Left Position: Normal Operation
Internal Jumpers	**Jumper (J4): Hardware:** The terminal timing switch controls the terminal timing function. The loop-back switch controls the loop-back function. **Software:** The terminal timing switch and the loop-back switch are disabled. These two functions are controlled by the most recently saved, on-board micro processor settings. **Jumper (J6): RX Clock Polarity:** Set to sample the receive data on the *rising* or *falling* edge of the receive clock. **Jumper (J7): TX Clock Polarity:** Set to sample the transmit data on the *rising* or *falling* edge of the receive clock.
Status LEDs	The Copper LED uses a green LED **Smart Serial Link**: Green - Link is up; Green Flashing - In loop-back mode; **Fiber**: Green - Link is up; Green Flashing - In loop-back mode; **Power**: Green - ON power applied to board
Dimensions	**Width**: 3.25" [82 mm] **Depth**: 4.8" [120 mm] **Height**: 1.0" [25 mm]
Power Consumption	5.0 Watts
Power	External AC/DC required; 12 VDC; 1A; regulated wall mount adapter via 2 mm connector
Environment	0 – 50°C, 5% – 90% humidity (non-condensing), 0 – 10,000 ft.
Shipping Weight	2 lbs. [0.90 kg]
Safety Compliance	**Wall Mount Power Supply**: UL Listed and CSA certified
Regulatory Compliance	CISPR/EN55022, EN55024, EN60950 Class A; FCC Class A; CE Mark
Warranty	Lifetime

Ordering Information

Complete list of fiber optic connector specifications [pg 212-224]

SPSVT2611-100
26-pin to 1300nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB

SPSVT2613-100
26-pin to 1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB

SPSVT2614-100
26-pin to 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB

SPSVT2615-100
26-pin to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB

Single Fiber Products [pg 19]

SPSVT2629-100
26-pin to 1310nm TX/1550nm RX single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

SPSVT2629-101
26-pin to 1550nm TX/1310nm RX single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

SPSVT2629-102
26-pin to 1310nm TX/1550nm RX single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

SPSVT2629-103
26-pin to 1550nm TX/1310nm RX single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

Optional Accessories *(sold separately)*

Cable Assemblies

21DCE-3
DB-15 (FT) (26-pin) to (DCE) **[3 m/10 ft.]**

21DTE-3
DB-15 (MT) (26-pin) to (DTE) **[3 m/10 ft.]**

232DCE-3
DB-25 (FT) (26-pin) to (DCE) **[3 m/10 ft.]**

232DTE-3
DB-25 (MT) (26-pin) to(DTE) **[3 m/10 ft.]**

35DCE-3
V.35 (FT) (26-pin) to (DCE) **[3 m/10 ft.]**

35DTE-3
V.35 (MT) (26-pin) to (DTE) **[3 m/10 ft.]**

35DTE-3C
V.35 (MT) (26-pin) to (DTE) **[3 m/10 ft.]**

449DCE-3
DB-37 (FT) (26-pin) to (DCE) **[3 m/10 ft.]**

449DTE-3
DB-37 (MT) (26-pin) to (DTE) **[3 m/10 ft.]**

530DCE-3
DB-25 (FT) (26-pin) to (DCE) **[3 m/10 ft.]**

530DTE-3
DB-25 (MT) (26-pin) to (DTE) **[3 m/10 ft.]**

Wide Input (24 - 60 VDC) Power Supplies

SPS-2460-PS [pg 69]
Piggy Back Power Supply

SPS-2460-SA [pg 69]
Stand-Alone Power Supply

Mounting Options

E-MCR-05 [pg 67]
12-Slot Media Converter Rack

WMBD [pg 68]
DIN Rail Bracket 5.0" [127 mm]

WMBD-F [pg 68]
DIN Rail Bracket (flat) 3.3" [84 mm]

WMBL [pg 68]
Wall Mount Bracket 4.0" [102 mm]

WMBV [pg 68]
Vertical Wall Mount Bracket 5.0" [127 mm]

RMS19-SA4-01 [pg 67]
4-Slot Media Converter Shelf